*Day60 LP 11 19 2014*

**Geometry ~ *Week 13***

*Mr. Tiénou-Gustafson, Mr. Bielmeier*

Wednesday, Nov 19, 2014

***Total Time***: 70 minutes

**CRS [same]**

* NCP 507 (8.EE 2) Work with **cubes and cube roots** of numbers
* NCP 505 (8.EE 2) Work with **squares and square roots** of numbers
* ***POWER:*** NCP 604 (N-RN 1, 2) Apply rules of **exponents**
* NCP 605 (N-CN 2) Multiply two complex numbers

**Objective: SWBAT...**

- differentiate between exponents to powers multiplied by each other, and exponents to powers raised to additional powers

- combine these two skills

**Agenda**

* (10) Do Now: Spiraled Review (from quarter plan): Do Now contains hints on common mistakes
* 2-minute micro-lesson at start of class before Do Now on slope & line from 2 points
  + Guided note on top of Do Now – go through one example as a class (differentiated cold call students, all students fill in)
* GRE 604 (slope from 2 pts, ll, ⊥)
  + TG: Attendance then circulate, then focus on
  + B: Quick check w/ all Awesome kids to get them started, then take up HW
    - Throughout HW, check in periodically with MP, RM, DS
* (5) TG: Review Do Now -
* (10) B: Review HW (targeted check & review)- pull out data based on HW
* (10) TG: Mini-lesson 1 (all): powers of powers (rules & how different from multiplying) – ex: (x3)4 vs x3 ∙x4
* (10) Practice - Check first lowest Awesome (B) and Reg (TG) …. See below… may adjust based on Mon/Tue CW or exit slip

|  |  |
| --- | --- |
| **1st** | **3rd** |
| B: DS, MP, RM, JS, TP, CS, JS  TG: CL, BB, KN, JH | B: JD & JM to get them started, then RC, TT, YC, RS, AH  TG: KO to get started, then KH, AB, DB, KB, VR |

* (5) Challenge problems for early finishers! Mid finishers show work on boards
* (5) Mini-lesson 2 (split):

|  |  |
| --- | --- |
| **1st** | **3rd** |
| * + TG: class: combining (1) multiplying variables with exponents AND (2) powers of powers – ex: (x3)4 ∙x5   + - practice first with white boards and partners, then independent with white boards, then CW   + **B: pull-out** (5-7 kids, same as targeted during practice): practice 2 skills independently, not combined (mirror problems – ex: (1) (x3)4 (2) x3 ∙x4 | * **FLIP** for CTD:   + TG pulls out Aneiyah, Isabella, Saul, Julian, Kevin for combined practice.   + B leads class (same materials as pull-out for 1st) |

* Exit Slip: 1 multiplying 2 variables (with powers), 1 power of power, 1 combined
  + GRADE exit slip (just 1 & 2... Use 3 for differentiation)

**Homework:** HW 60 (*include GRE 604*)